

felo



VDE

Tools for Electricians



**made in
Germany**

67

years of Felo!

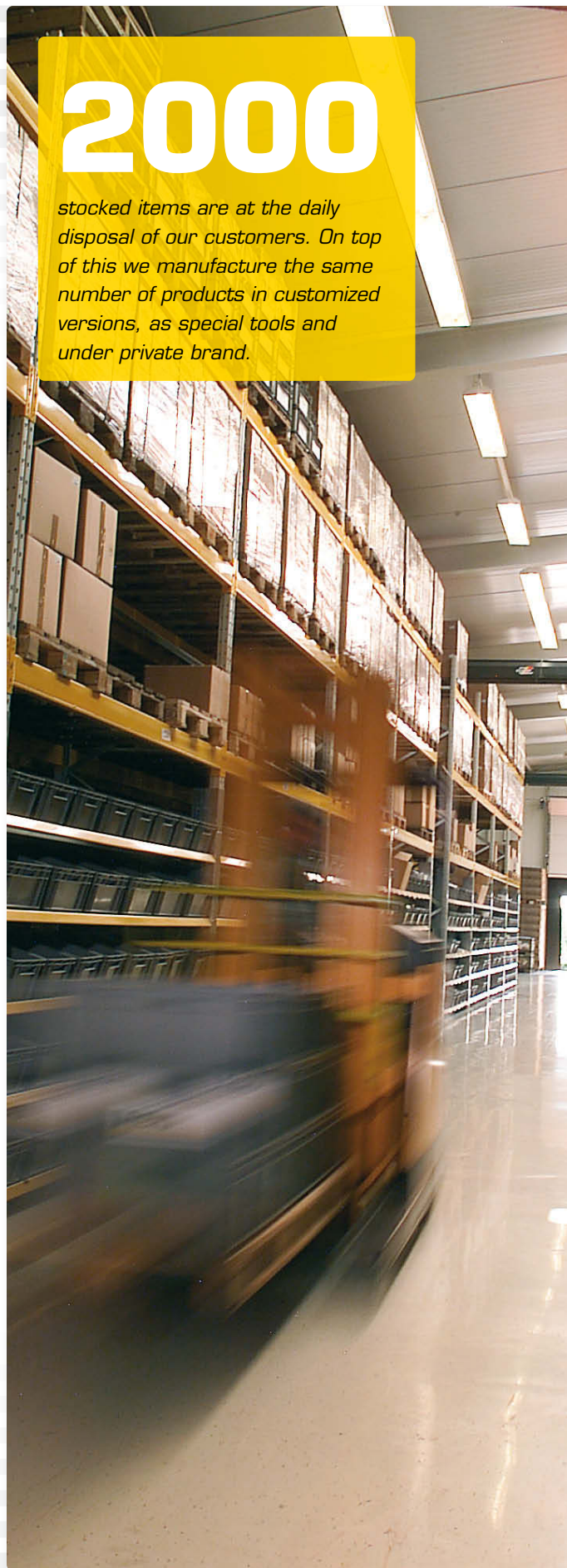
Our customers and employees are proud of this anniversary. In 1950 Felo Werkzeugfabrik was founded in Neustadt (Hessen). Driven by innovative power, quality consciousness and enthusiasm the company grew from humble beginnings with 2 employees into one of the leading manufacturers of screwdrivers and bits.

Today 200 people work for Felo.



2000

stocked items are at the daily disposal of our customers. On top of this we manufacture the same number of products in customized versions, as special tools and under private brand.



139

years of experience in the development, production and marketing of screwdrivers.

In 1878 the »Hammermühle« factory for tools was founded. The product range included forged screwdrivers as well as chisels, hammers and pliers. The foundation of Felo in 1950 was based on this company.



40

Felo tools are exported to 40 countries: we are a global player and specialist, offering a wide variety of products for the most different markets and requirements. Felo is traditionally strong in exports: almost 100 years ago we began using catalogues in 4 languages. Since then Felo has become a byword for quality.



260

applications for industrial property rights document our innovative power!
Progressive ideas like 2-component handles, Titanium-coated bits and screwdrivers with exchangeable blades for electricians originated from Felo developments. Our curiosity and creativity have made us a leader in product and production.



1

mission: We want to inspire our customers!
This doesn't just show in our products but also in our flexibility, customer service, reliability and cost-efficiency.

Test for yourself our strengths!



We know electricians – do you know Felo?

We are a specialist German manufacturer of screwdrivers and bits. Concentrating on few product groups has made us a renowned leader in this area. Today Felo tools are acknowledged benchmarks in quality, innovation and safety.



No risk: 15 years guarantee!



This is our catalogue for electricians, presenting our range of tools for the expert jobs you have to do every day.

Innovation and uncompromising quality and safety are the defining criteria for Felo tools.

Judge for yourself!

 **made in
Germany**



Rgonic®

Pg 4 - 9



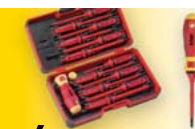
Eslim

Pg 10 - 15



**Serie
500/600**

Pg 16 - 21



Esmart

Pg 22 - 25



Nm

Pg 28 - 29



**Stripping
Tools &
Testers**

Pg 30 - 33



Pliers

S. 34 - 39

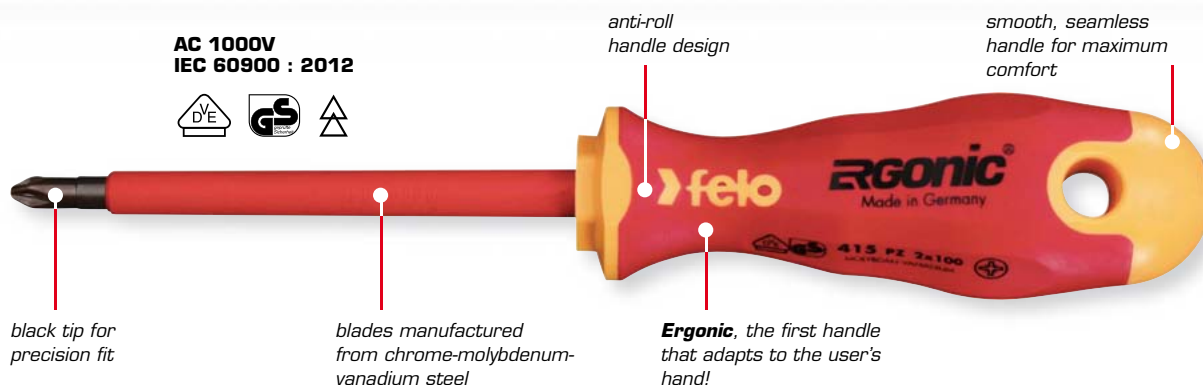


**Bit
Boxes**

Pg 40 - 41

ERGONIC® (pat. *)

made in Germany



screw symbols on handle cap



U.S. Patent # 7,877,843
European Patent 1963072

Rely on Felo tools – without compromise!



You can only do your work well with a lot of experience and expertise. People rely on your accuracy and caution. Quality and safety are your responsibility.

We know about the high demands you have to meet – let us support you with the best tools for the job.

*Our patented **ERGONIC** line offers a combination of high performance blades and the only handle that adapts to the user's hand. The insulation of the precisely machined and extremely durable blades is individually tested for safety according to the strictest standards for electrician's tools. The unique shape and flexible **ERGONIC** cushions of the handle result in a perfect fit and optimal transmission of torque.*

An outstanding tool for top-rate work results!

413



AC 1000V
IEC 60900 : 2012

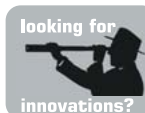


							Item No		EAN-Code
2,5 x 0,4	75	86	25	2,5	12		413 025 90	28	40 07157 53133 9
3,0 x 0,5	100	86	25	3,0	12		413 030 90	32	40 07157 53135 3
3,5 x 0,6	100	86	25	3,5	12		413 035 90	34	40 07157 53139 1
3,5 x 0,8	100	86	25	3,5	12		413 038 90	34	40 07157 61731 6
4,0 x 0,8	100	94	30	3,5	12		413 040 90	46	40 07157 53141 4
4,5 x 1,0	125	101	33	4,5	12		413 045 90	69	40 07157 53143 8
5,5 x 1,0	125	101	33	4,5	12		413 055 90	68	40 07157 53145 2
6,5 x 1,2	150	106	36	5,5	6		413 065 90	100	40 07157 53147 6
8,0 x 1,2	175	112	39	7,0	6		413 080 90	140	40 07157 53149 0

414



AC 1000V
IEC 60900 : 2012



PH						Item No		EAN-Code
0	60	86	25	3,0	12	414 001 90	29	40 07157 53151 3
1	80	94	30	5,0	12	414 102 90	51	40 07157 53153 7
2	100	106	36	6,0	12	414 203 90	94	40 07157 53155 1
3	150	112	39	8,0	6	414 304 90	150	40 07157 53157 5

415



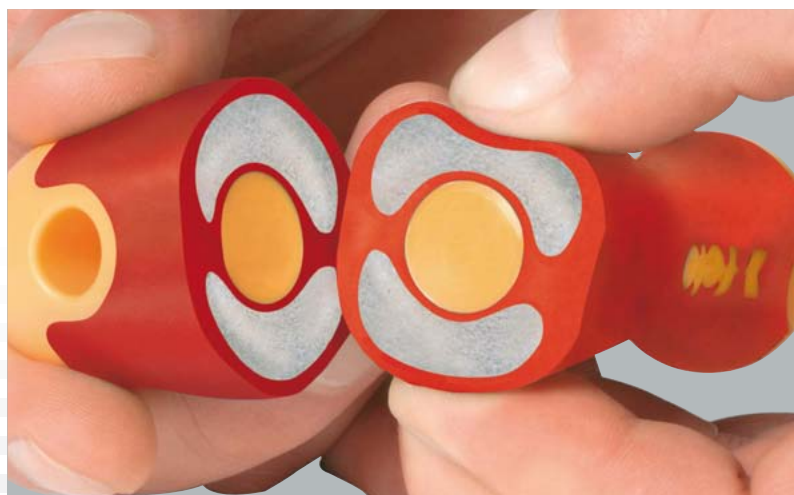
AC 1000V
IEC 60900 : 2012



PZ						Item No		EAN-Code
1	80	94	30	5,0	12	415 102 90	51	40 07157 53159 9
2	100	106	36	6,0	12	415 203 90	94	40 07157 53161 2
3	150	112	39	8,0	6	415 304 90	151	40 07157 53163 6



ERGONIC adapts to the user's hand...

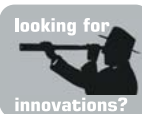


... due to flexible gel cushions!

416



AC 1000V
IEC 60900 : 2012

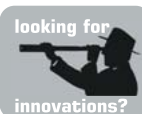


Plus/Minus						Item No		EAN-Code
H1	80	94	30	5,0	12	416 102 90	51	40 07157 60311 1
H2	100	106	36	6,0	12	416 203 90	94	40 07157 60313 5

417



AC 1000V
IEC 60900 : 2012

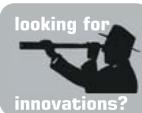


Plus/Minus						Item No		EAN-Code
Z1	80	94	30	5,0	12	417 102 90	51	40 07157 60315 9
Z2	100	106	36	6,0	12	417 203 90	94	40 07157 60317 3

417



AC 1000V
IEC 60900 : 2012



Set 2-pcs Plus/Minus VDE	Item No		EAN-Code
(2 x) 417: Z1 / Z2	417 921 91	290	40 07157 963697 3

418



AC 1000V
IEC 60900 : 2012



Torx®						Item No		EAN-Code
10	100	86	25	3,5	12	418 103 90	37	40 07157 60369 2
15	100	94	30	3,5	12	418 153 90	54	40 07157 60371 5
20	125	101	33	4,5	12	418 203 90	76	40 07157 60373 9
25	125	106	36	4,5	12	418 253 90	84	40 07157 60375 3
30	150	112	39	6,0	6	418 303 90	118	40 07157 60377 7

419



AC 1000V
IEC 60900 : 2012



SQ						Item No		EAN-Code
1 (1,75 mm)	100	94	30	3,5	12	419 100 90	35	40 07157 57343 8
2 (2,30 mm)	100	106	36	6,0	12	419 200 90	94	40 07157 57345 2

413

AC 1000V
IEC 60900 : 2012

Item No



EAN-Code

Set 3-pcs VDE**413 931 94**

254

40 07157 53175 9

[2 x] **413:** 4,0 x 100 / 5,5 x 125[1 x] **414:** PH 2 x 100

413

AC 1000V
IEC 60900 : 2012

Item No

**43,05****Set 6-pcs VDE****413 961 98**

506

40 07157 53169 8

[4 x] **413:** 3,0 x 100 / 4,0 x 100 / 5,5 x 125 / 6,5 x 150[2 x] **414:** PH 1 x 80 / PH 2 x 100

413

AC 1000V
IEC 60900 : 2012

Item No



EAN-Code

Set 6-pcs VDE**413 963 98**

413

40 07157 61081 2

[3 x] **413:** 2,5 x 75 / 4,0 x 100 / 5,5 x 125[2 x] **414:** PH 1 x 80 / PH 2 x 100[1 x] **361:** Mains testing screwdriver VDE 0680/6, 220-250 Volt

413



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

toolcase 6-pcs VDE

413 106 36

629

40 07157 64413 8

(4 x) 413: 3,0 x 100 / 4,0 x 100 / 5,5 x 125

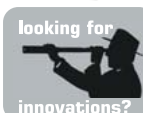
(2 x) 414: PH 1 x 80 / PH 2 x 100

(2 x) 415: PZ 2 x 100

413



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

Ergonic XL-Rack 10-pcs VDE / XL Rack 10 tlg. VDE

414 910 93

1224

40 07157 63631 7

(4 x) 413: 2,5 x 75 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125

(3 x) 414: PH 0 x 60 / PH 1 x 80 / PH 2 x 100

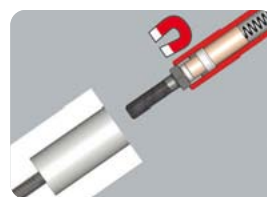
(1 x) 415: PZ 2 x 100

(2 x) 418: Torx 10 x 100 / Torx 20 x 125

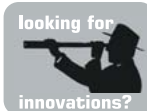
(1 x) **Steel Rack / Werkzeuhalter (Stahl)**

Insulated nutdrivers (IEC) put
screws in difficult places within
easy reach!

M-TEC



AC 1000V
IEC 60900 : 2012



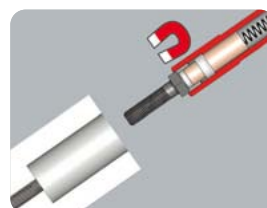
419



MTec					Item No		EAN-Code
5,5	110	94	30	12	419 055 30	103	40 07157 60297 8
6	110	94	30	12	419 060 30	104	40 07157 60351 7
7	110	94	30	12	419 070 30	114	40 07157 60299 2
8	110	101	33	12	419 080 30	133	40 07157 60301 2
10	125	101	33	12	419 100 30	140	40 07157 60303 6
13	125	106	36	12	419 130 30	237	40 07157 60305 0



M-TEC



AC 1000V
IEC 60900 : 2012



419



	Item No		EAN-Code
toolcase 6-pcs M-Tec VDE	419 106 36	980	40 07157 61371 4
[6 x] 419:	5,5 x 110 / 6,0 x 110 / 7,0 x 110 / 8,0 x 110		
	10,0 x 125 / 13,0 x 125		

Eslim

made in
Germany

black tip for
precision fit

blades manufactured
from chrome-molybdenum-
vanadium steel

Ergonic, the first handle
that adapts to the user's
hand!



Insulation up to
50% slimmer!



Handle 30%
slimmer!

AC 1000V
IEC 60900 : 2012



Are you looking for the best?

Most electricians are not happy with the big regular handles because they rarely have to deal with seized rusty screws and extreme torque is almost never needed. Difficult to reach screws, however, are a common problem.

The Felo **E-Slim** handle is a longer and considerably slimmer than a conventional screwdriver handle. Its patented **ERGONIC** design, with flexible cushion zones, adapts perfectly to the user's hand: your work becomes faster and more fluent at a much reduced strain.

E-Slim was exclusively developed with electricians in mind.

It is the best VDE screwdriver you have ever worked with!

413



AC 1000V
IEC 60900 : 2012

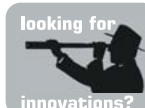


						Item No		EAN-Code
3,0 x 0,5	100	105	25	3,5	12	413 930 90	45	40 07157 62631 8
3,5 x 0,6	100	105	25	3,5	12	413 935 90	45	40 07157 62635 6
3,5 x 0,8	100	105	25	3,5	12	413 938 90	45	40 07157 62637 0
4,0 x 0,8	100	105	25	4,0	12	413 940 90	46	40 07157 62639 4
4,5 x 1,0	125	115	27	4,5	12	413 945 90	62	40 07157 62641 7
5,5 x 1,0	125	115	27	5,5	12	413 955 90	73	40 07157 62643 1
6,5 x 1,2	125	115	27	6,5	12	413 965 90	86	40 07157 62645 5

414



AC 1000V
IEC 60900 : 2012

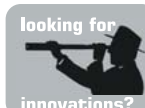


PH						Item No		EAN-Code
1	80	105	25	4,5	12	414 192 90	45	40 07157 62647 9
2	100	115	27	6,0	12	414 293 90	73	40 07157 62649 3

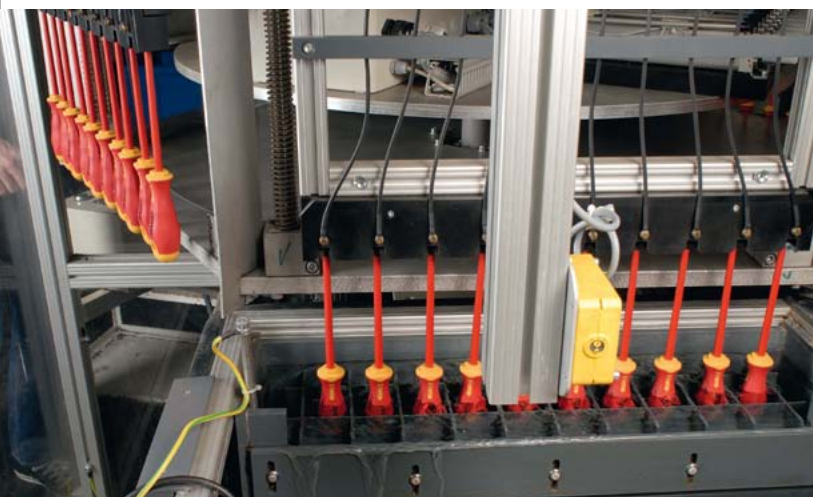
415



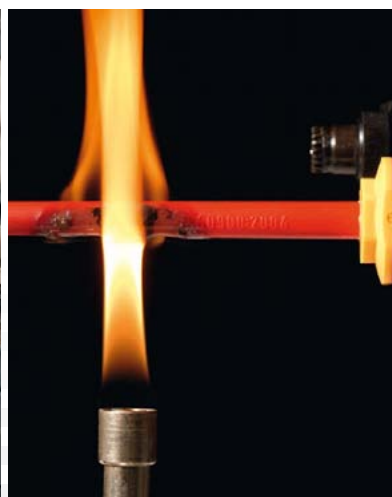
AC 1000V
IEC 60900 : 2012



PZ						Item No		EAN-Code
1	80	105	25	4,5	12	415 192 90	44	40 07157 62651 6
2	100	115	27	6,0	12	415 293 90	73	40 07157 62653 0



100% testing (10.000 V)



+ 5 additional Tests on every material lot



+ 5 weitere Tests bei jeder Materialcharge

416



AC 1000V
IEC 60900 : 2012

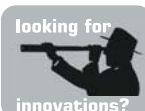


+/- H						Item No		EAN-Code
1	80	105	25	4,5	12	416 192 90	45	40 07157 62655 4
2	100	115	27	6,0	12	416 293 90	73	40 07157 62657 8

417



AC 1000V
IEC 60900 : 2012

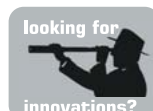


+/- Z						Item No		EAN-Code
1	80	105	25	4,5	12	417 192 90	45	40 07157 62659 2
2	100	115	27	6,0	12	417 293 90	73	40 07157 62661 5

418



AC 1000V
IEC 60900 : 2012

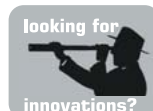


Torx						Item No		EAN-Code
10	100	105	25	3,5	12	418 109 90	46	40 07157 62663 9
15	100	105	25	3,5	12	418 159 90	46	40 07157 62665 3
20	125	115	27	4,5	12	418 209 90	62	40 07157 62667 7
25	125	115	27	4,5	12	418 259 90	63	40 07157 62669 1

419



AC 1000V
IEC 60900 : 2012

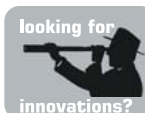


SQ						Item No		EAN-Code
1 (1,75 mm)	100	105	25	4,5	12	419 190 90	46	40 07157 63167 1
2 (2,30 mm)	125	115	27	4,5	12	419 290 90	62	40 07157 63169 5

413



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

E-slim set 4 pcs. VDE**413 841 98**

321

40 07157 62741 4

(2 x) **413:** 3,5 x 100 / 5,5 x 125(2 x) **414:** PH1 x 80 / PH2 x 100

413



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

E-slim set 5 pcs. VDE**413 852 98**

359

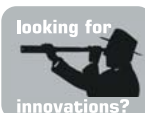
40 07157 62853 4

(2 x) **413:** 3,5 x 100 / 5,5 x 125(2 x) **414:** PH1 x 80 / PH2 x 100**361:** Mains testing screwdriver VDE 0680/6, 220-250 Volt

413



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

E-slim set 5 pcs VDE**413 851 98**

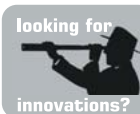
371

40 07157 62743 8

(3 x) **413:** 3,0 x 100 / 4,0 x 100 / 5,5 x 125(2 x) **414:** PH1 x 80 / PH2 x 100



AC 1000V
IEC 60900 : 2012



413



Item No



EAN-Code

E-slim XL-Rack 10-pcs VDE / XL Rack 10 tlg. VDE

413 910 93

1212

40 07157 63627 0

(4 x) 413: 3,0 x 100 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125

(2 x) 414: PH 1 x 80 / PH 2 x 100

(1 x) 415: PZ 2 x 100

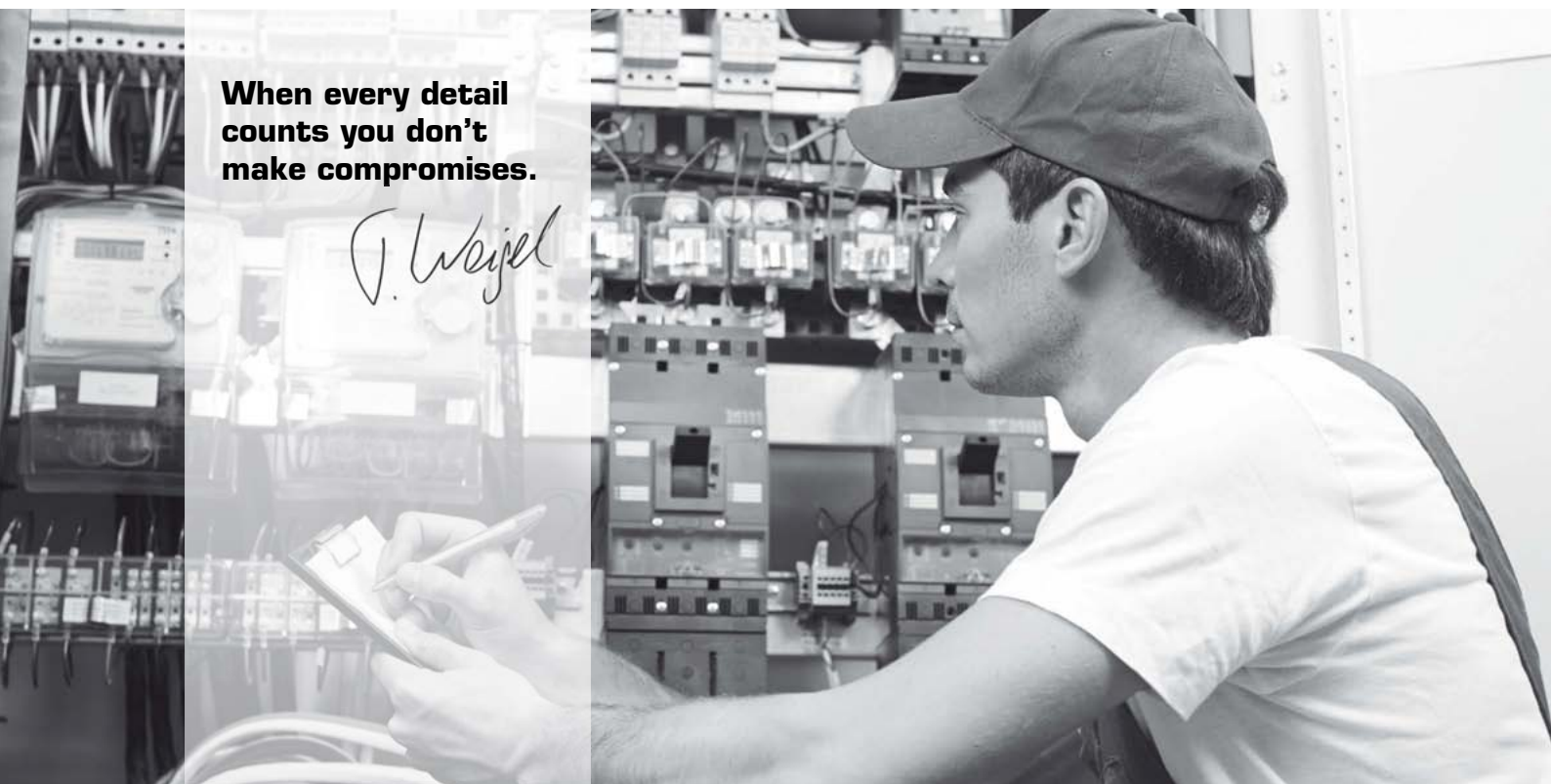
(2 x) 418: Torx 15 x 100 / Torx 20 x 125

(1 x) 361: **Mains testing screwdriver / Profi-Spannungsprüfer** VDE 0680 150 V - 250 V

(1 x) **Steel Rack / Werkzeughalter (Stahl)**

**When every detail
counts you don't
make compromises.**

J. Weigel



413



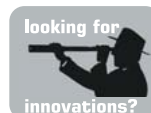
AC 1000V
IEC 60900 : 2012



	Item No		EAN-Code
E-slim toolcase 7-pcs. VDE	413 807 36	650	40 07157 62745 2
(3 x) 413:	3,0 x 100 / 4,0 x 100 / 5,5 x 125		
(2 x) 414:	PH1 x 80 / PH2 x 100		
415:	PZ2 x 100		
361:	Mains testing screwdriver VDE 0680/6, 220-250 Volt		



AC 1000V
IEC 60900 : 2012



413



	Item No		EAN-Code
E-slim Kombi Display 22 pcs. VDE (Sets not included)	413 881 90	2471	40 07157 62749 0
(4 x 3) 413:	3,0 x 100 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125		
(2 x) 413:	6,5 x 125		
(2 x) 414:	PH1 x 80		
(3 x) 414:	PH2 x 100		
(3 x) 415:	PZ2 x 100		

Serie 500 & 600



AC 1000V
IEC 60900 : 2012



pleasant soft grip material
for highest torque

smooth, seamless
handle for maximum
comfort



black tip for
precision fit

blades manufactured from
chrome-molybdenum-
vanadium steel

ergonomically
refined design

handles manufactured from
shock-proof polypropylene



It all depends on a good blade!

On building sites and in workshops tools tend to »get lost«, therefore »price« is also a criterion. Quality & safety, however, should never be compromised. The handles of our **series 500** and **600** screwdrivers are made of 2-component and 1-component materials and still beat the best of the competition.

We use the same high precision long lasting blades for these series that you find in our **ERGONICS** screwdrivers and the shape of both Felo handles is superior in every detail to competing brands.

Series 500 is the ultimate in ergonomics for screwdrivers with 2-component handles, with soft grip elastomer covering all torque transmitting areas and smooth polypropylene on top for minimal friction in the palm of your hand. Of course like all **Felo** insulated tools the items of **series 500** and **600** are individually tested according to the strictest standards for electrician's tools.



513



AC 1000V
IEC 60900 : 2012

						Item No		EAN-Code
2,5 x 0,4	75	68	20	2,5	12	513 025 90	16	40 07157 22141 4
3,0 x 0,5	100	68	20	3,0	12	513 030 90	20	40 07157 22113 1
3,5 x 0,6	100	80	25	3,5	12	513 035 90	34	40 07157 22114 8
4,0 x 0,8	100	80	25	3,5	12	513 040 90	34	40 07157 22115 5
4,5 x 1,0	125	99	34	4,5	12	513 045 90	77	40 07157 50124 0
5,5 x 1,0	125	99	34	4,5	12	513 055 90	72	40 07157 22116 2
6,5 x 1,2	150	99	34	5,5	6	513 065 90	89	40 07157 22117 9
8,0 x 1,2	175	105	39	7,0	6	513 080 90	136	40 07157 22118 6

514



AC 1000V
IEC 60900 : 2012

PH						Item No		EAN-Code
0	60	80	25	3,0	12	514 001 90	28	40 07157 22142 1
1	80	90	29	4,5	12	514 102 90	49	40 07157 22119 3
2	100	99	34	6,0	12	514 203 90	83	40 07157 22120 9
3	150	105	39	8,0	6	514 304 90	145	40 07157 22143 8

515



AC 1000V
IEC 60900 : 2012

PZ						Item No		EAN-Code
1	80	90	29	4,5	12	515 102 90	49	40 07157 22121 6
2	100	99	34	6,0	12	515 203 90	83	40 07157 22122 3
3	150	105	39	8,0	6	515 304 90	147	40 07157 22144 5

518



Bitholder					Item No		EAN-Code
1/4"	105	99	34	6	518 125 90	107	40 07157 50785 3

020



Item No



EAN-Code

E-Pro 11+1 pcs

6

020 912 06

220

40 07157 51427 1

[1 x] **518:** 1/4" x 105

[4 x] **020:** 3,0 x 0,5 / 4,0 x 0,8 / 5,5 x 1,0 / 7,0 x 1,2

[2 x] **021:** PZ 1 / PZ 2

[3 x] **022:** PH 0 / PH 1 / PH 2

[2 x] **026:** Torx 20 / Torx 15

513



AC 1000V
IEC 60900 : 2012

Item No



EAN-Code

Set 6-pcs

513 961 97

490

40 07157 50176 9

[4 x] **513:** 3,0 x 100 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125

[2 x] **514:** PH 1 x 80 / PH 2 x 100

513



AC 1000V
IEC 60900 : 2012

Item No



EAN-Code

Set 6-pcs

513 961 98

487

40 07157 50120 2

[3 x] **513:** 3,5 x 100 / 4,0 x 100 / 5,5 x 125

[2 x] **514:** PH 1 x 80 / PH 2 x 100

[1 x] **361:** Mains testing screwdriver VDE 0680/6, 220-250 Volt

513



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 5-pcs	513 951 98	360	40 07157 22136 0
[4 x] 513:	3,0 x 100 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125		
[1 x] 515:	PZ 2 x 100		

513



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 5-pcs / Satz 5-tlg	513 956 98	400	40 07157 32074 2
[3 x] 513:	2,5 x 75 / 3,0 x 100 / 4,0 x 100		
[2 x] 514:	PH 1 x 80 / PH 2 x 100		

513



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 3-pcs	513 931 14	236	40 07157 52235 1
[2 x] 513:	4,0 x 100 / 5,5 x 125		
[1 x] 514:	PH 2 x 100		

613



AC 1000V
IEC 60900 : 2012

							Item No		EAN-Code
2,5 x 0,4	75	75	23	2,5	12		613 025 90	20	40 07157 10134 1
3,0 x 0,5	100	75	23	3,0	12		613 030 90	24	40 07157 10137 2
3,5 x 0,6	100	80	25	3,5	12		613 035 90	30	40 07157 10139 6
4,0 x 0,8	100	90	29	3,5	12		613 040 90	40	40 07157 10141 9
5,5 x 1,0	125	99	34	4,5	12		613 055 90	64	40 07157 10143 3
6,5 x 1,2	150	99	34	5,5	6		613 065 90	81	40 07157 10146 4
8,0 x 1,2	175	105	39	7,0	6		613 080 90	126	40 07157 10147 1
8,0 x 1,6	200	105	39	7,0	6		613 090 90	136	40 07157 10148 8
10,0 x 1,6	200	115	42	8,0	6		613 100 90	182	40 07157 10149 5

614



AC 1000V
IEC 60900 : 2012

PH						Item No		EAN-Code
0	60	80	25	3,0	12	614 001 90	21	40 07157 24001 9
1	80	90	29	5,0	12	614 102 90	44	40 07157 10150 1
2	100	99	34	6,0	12	614 203 90	75	40 07157 10153 2
3	150	105	39	8,0	6	614 304 90	135	40 07157 10156 3

615



AC 1000V
IEC 60900 : 2012

PZ						Item No		EAN-Code
0	60	80	25	3,0	12	615 001 90	21	40 07157 24008 8
1	80	90	29	5,0	12	615 102 90	44	40 07157 24009 5
2	100	99	34	6,0	12	615 203 90	75	40 07157 24010 1
3	150	105	39	8,0	6	615 304 90	138	40 07157 24011 8

613



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 7-pcs	613 973 97	504	40 07157 51401 1
(5 x) 613:	2,5 x 75 / 3,0 x 100 / 3,5 x 100 / 4,0 x 100 / 5,5 x 125		
(2 x) 614:	PH 1 x 80 / PH 2 x 100		

613



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 7-pcs	613 974 97	558	40 07157 51403 5
(3 x) 613:	2,5 x 75 / 4,0 x 100 / 5,5 x 125		
(2 x) 614:	PH 1 x 80 / PH 2 x 100		
(2 x) 615:	PZ 1 x 80 / PZ 2 x 100		

613



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
Set 6-pcs	613 962 98	362	40 07157 51405 9
(3 x) 613:	2,5 x 75 / 4,0 x 100 / 5,5 x 125		
(2 x) 614:	PH 1 x 80 / PH 2 x 100		
(1 x) 361:	Mains testing screwdriver VDE 0680/6, 220-250 Voltt		

613



AC 1000V
IEC 60900 : 2012

	Item No		EAN-Code
toolcase 10-pcs. VDE	600 110 96	912	40 07157 10021 4
(7 x) 613:	2,5 x 75 / 3,0 x 100 / 3,5 x 100 / 4,0 x 100 5,5 x 125 / 6,5 x 150 / 8,0 x 175		
(2 x) 614:	PH 1 x 80 / PH 2 x 100		
(1 x) 361:	Mains testing screwdriver VDE 0680/6, 220-250 Voltt		

E^{Smart}

**made in
Germany**



- 12 interchangeable IEC screwdriver blades with 2-component handle in sturdy smart box
- every screwdriver individually tested to 10,000 Volts, fully conforming to IEC 60900:2012
- secure fit of blades, quick-release button on handle against unwanted extraction
- precision cap and soft-grip zone on blades for low torque application



***Your tools –
mobile like yourself!***

Wouldn't it be handy if all screws were the same? Unfortunately the reverse is true in most cases. More and more different screws are in use and require matching tools. The wider the assortment of tools you carry with you, the more unwieldy your gear becomes.

*All efforts withstanding, no one will be able to produce a universal one-for-all screwdriver. Although Felo **E-Smart** is pretty close.*

E-Smart is the first VDE tested and certified set of exchangeable insulated screwdriver blades. **E-Smart** blades and handle combine to a very compact, quickly assembled set of 12 insulated screwdrivers covering the most common tip styles and sizes (including Torx).

E-Smart makes you perfectly equipped for mobile jobs!



063



AC 1000V
IEC 60900 : 2012



		Item No		EAN-Code
Felo E-SMART	Box 14-pce	063 913 06	984	40 07157 51719 7
(12 x)	Blade			
	2,5 x 0,4 / 3,0 x 0,5 / 3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0 / 6,5 x 1,2			
	PZ 2			
	PH 1 / 2			
	Torx 10 / 15 / 20			
	Handle 95 x 32 mm			
	Precision Cap			
	StrongBox 230mm x 130mm x 56mm			

063



AC 1000V
IEC 60900 : 2012



		Item No		EAN-Code
E-SMART Box in Blister, 14-pce .		063 913 01	1044	40 07157 53077 6
(12 x)	Blade			
	2,5 x 0,4 / 3,0 x 0,5 / 3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0 / 6,5 x 1,2			
	PZ 2			
	PH 1 / 2			
	Torx 10 / 15 / 20			
	Handle 95 x 32 mm			
	Precision Cap			
	StrongBox 230mm x 130mm x 56mm			

063



AC 1000V
IEC 60900 : 2012



Item No		EAN-Code
063 913 16	1071	40 07157 53263 3

Felo E-SMART Industry Box 14 tlg. (10 x)	Blade
	2,5 x 0,4 / 3,0 x 0,5 / 3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0 / 6,5 x 1,2
	PZ 2
	PH 1 / 2
	Z 2
	Bit: Spanner 10 x 25
	Universal Cabinet key
	Handle 95 x 32 mm
	Precision Cap
	StrongBox 230mm x 130mm x 56mm

- (1 x) Spanner 10
- (3 x) 5 mm, 6, 7
- (1 x) 9 mm
- (1 x) 3 - 5 mm
- (1 x) 1/4"

063

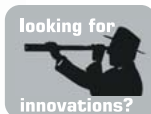


Item No		EAN-Code
063 999 01	157	40 07157 62417 8

Universal Cabinet key (in Blister)



063



AC 1000V
IEC 60900 : 2012



Item No

063 919 04



1550

EAN-Code

40 07157 60353 1

Zip-Bag 19-pcs

(14 x)

Blade

2,5 x 0,4 / 3,0 x 0,5 / 3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0 / 6,5 x 1,2

PZ 2

PH 1 / 2

Torx 10 / 15 / 20

H 2

Z 2

Handle 95 x 32 mm

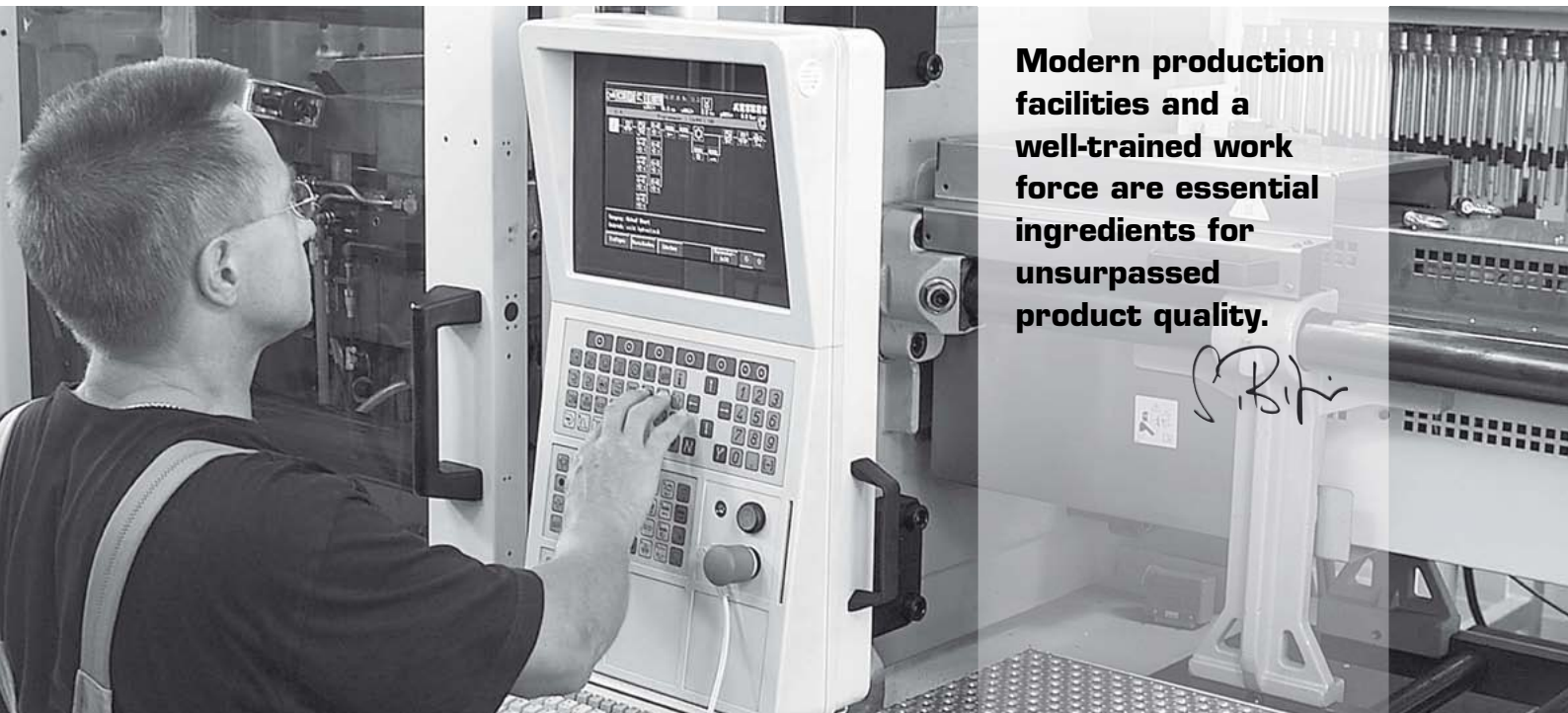
Precision Cap

Combination Pliers 180 mm

Diagonal Nippers 160 mm

Mains testing Screwdriver 3,0 mm x 70 mm (VDE 0680/6, 150-250 Volt)

Nylon bag 310 mm x 190 mm x 70 mm



Modern production facilities and a well-trained work force are essential ingredients for unsurpassed product quality.

S. Bittner

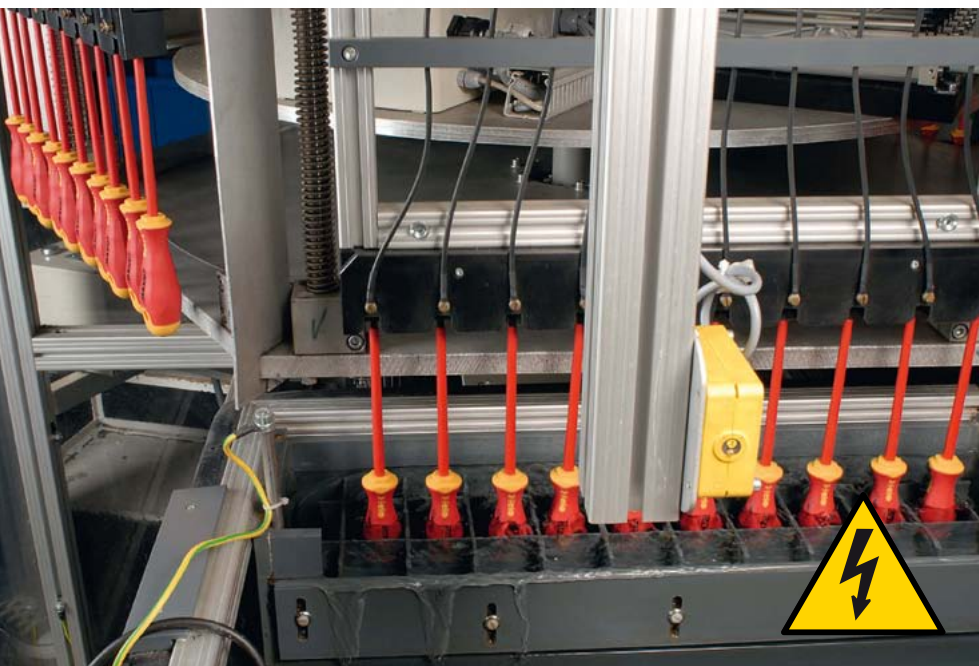
Safety First, no compromise!

Your Felo VDE screwdriver must meet the strictest standards of IEC 60900:2012 for insulated tools.

These are the tests to make sure it does.

Every VDE screwdriver leaving our factory has been thoroughly manufactured and tested.

IEC 60900 specifies exactly shape, thickness and length of the insulation, the marking on the tool and strict validation tests under severe conditions.



Voltage tests are performed on **every individual screwdriver!**

A Voltage Test is performed on every individual screwdriver by immersing it into water, with only the tip of the blade being left dry.

A current of 10,000 Volts - a safety margin of 10 times the maximum operational voltage! - is then applied to the

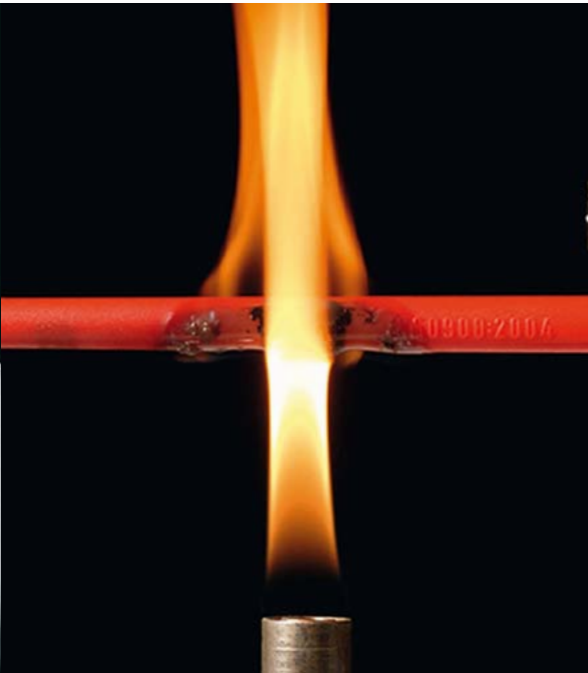
metal for at least 10 seconds to test the integrity of the insulation.

Short circuiting safely detects any faulty items which automatically get scrapped.

The tools are now safe for use up to 1,000 Volts.



Tests of type are performed on items produced from every new material lot of plastics.



1 Visual Check

Monitoring the marking on the tools and checking for visible manufacturing faults.

2 Dimensional Check

Have all dimensions specified by IEC 60900:2012 been met? (e.g. size of insulation and non-insulated areas)

3 & 4 Impact Testing

Testing the integrity and strength of the insulation at room temperature (23°C) and extreme cold (-40°C).

5 Voltage Test

After complete immersion of the tool in water for 24 hours 10,000 Volts are applied for 3 minutes to test the insulation for integrity.

6 Adhesion Test

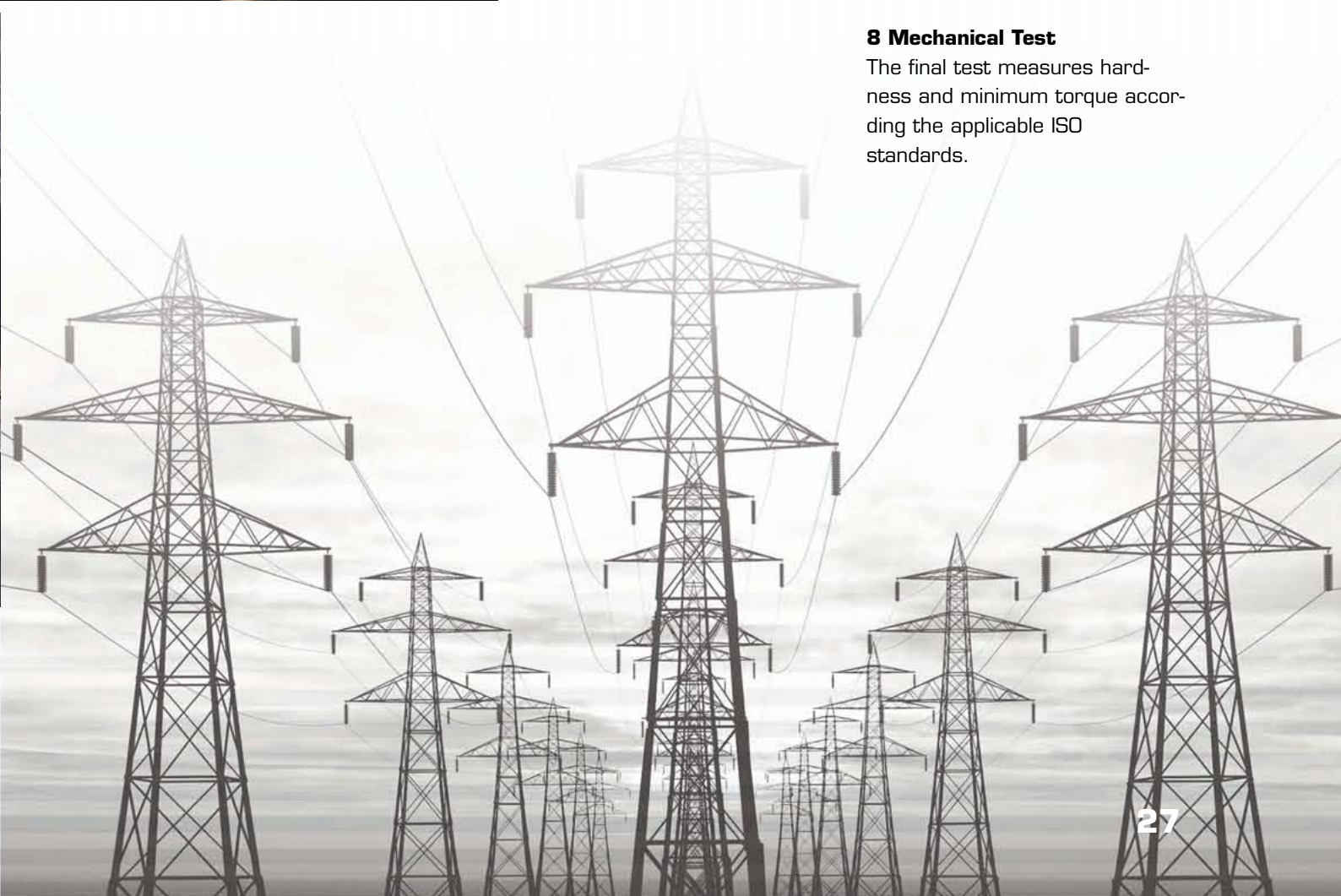
A pulling force of up to 200N is applied to the insulation to check its firm attachment to the metal.

7 Flame Test

A specified flame is applied to the insulation for 10s to confirm the low flammability of the material.

8 Mechanical Test

The final test measures hardness and minimum torque according to the applicable ISO standards.



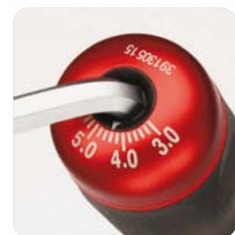
Serie Nm



AC 1000V
IEC 60900 : 2012



colour coded to
indicate torque range



easy adjustment
of torque

every handle individually
calibrated and certified



When safety meets precision!

Switchboard cabinets and machines are increasingly equipped with screws made of copper, aluminium and plastics. Overtorquing will damage screw and thread and prevent the connection from being safe. Heavily squeezed wires may result in heat build-up. Incorrectly fastened screws pose a serious safety hazard!

Felo offers a line of adjustable torque-release screwdrivers (covering 0.6 – 5.4 Nm). The handle automatically limits the transmitted torque to the pre-adjusted value and signals this by a clear acoustic "click". A selection of individually tested insulated blades are available for VDE application. With **Nm** you fulfill the specifications and requirements of component manufacturers and insurance companies.





100

Handle	Nm max				Item No		EAN-Code
0,6 - 1,5 Nm	105	32	1		100 001 06	183	40 07157 52149 1
1,5 - 3,0 Nm	105	32	1		100 002 06	183	40 07157 52151 4
3,0 - 5,4 Nm	105	32	1		100 003 06	192	40 07157 52153 8

VDE slim blades for Series Nm

Individually tested according EN 60900:2012

New!

AC 1000V
IEC 60900 : 2012



Insulation up to
50% slimmer!



108



Nm VDE slim	Nm max				Item No		EAN-Code
3,5 x 0,6	170	1/4"	1		100 353 94	23	40 07157 63865 6
4,0 x 0,8	170	1/4"	1		100 043 94	24	40 07157 63863 2
5,5 x 1,0	170	1/4"	1		100 554 94	26	40 07157 63867 0
PH1	170	1/4"	1		101 102 94	26	40 07157 63869 4
PH2	170	1/4"	1		101 203 94	31	40 07157 63871 7
PZ1	170	1/4"	1		102 102 94	26	40 07157 63873 1
PZ2	170	1/4"	1		102 203 94	31	40 07157 63875 5
H2 +/-	170	1/4"	1		106 203 94	31	40 07157 63877 9
Z1 +/-	170	1/4"	1		107 102 94	31	40 07157 63879 3
Z2 +/-	170	1/4"	1		107 203 94	31	40 07157 63881 6



100

Torque-Seal



1

Item No

100 006 00



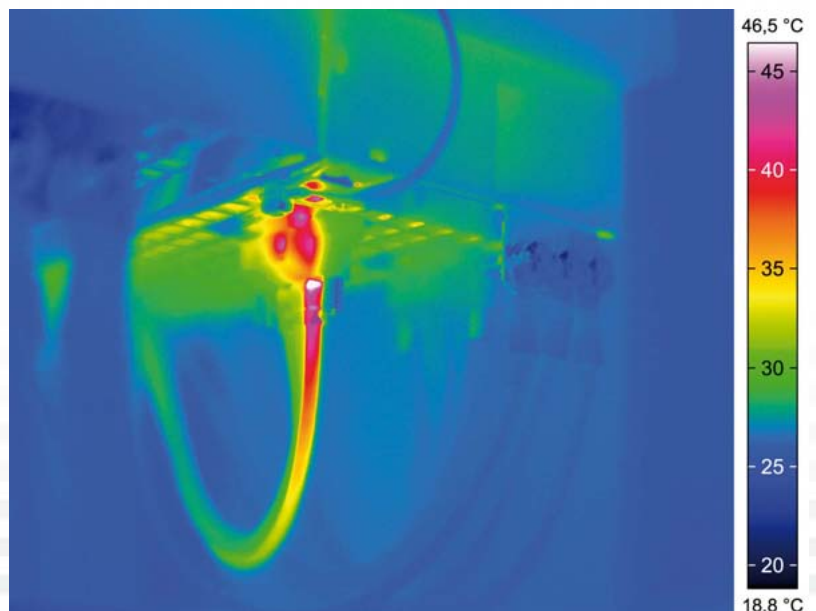
2

EAN-Code

40 07157 53413 2



Incorrectly fastened screws pose a serious safety hazard!



Heavily squeezed wires may result in heat build-up.

29

Stripping Tools & Testers



VDE 0680 150V-250V



How efficient do you work?

Some kind of wire stripping tool can be found in every tool box. In case nothing else is on hand, even an ordinary knife might be used.

Perfect results are guaranteed with Felo wire stripping and cable cutting tools.

Faster, more precise, safer!

All our wire stripping and cable-cutting tools are long-lasting, well designed, high-performance tools for professionals.





583

Automatic Wire Stripper

6

Item No

583 999 11



119

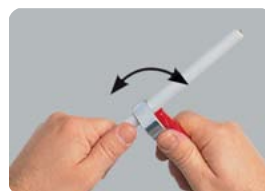
EAN-Code

40 07157 62681 3

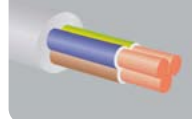


Simply set diameter and stripping length for precise and safe wire stripping in seconds!

The best tool for the job!



8 - 28 mm Ø
5/16" - 1.1/8" Ø



584

Cable Stripper



12

Item No

584 018 11



96

EAN-Code

40 07157 62683 7

063



- (1 x) Spanner 10
- (3 x) 5 mm, 6, 7
- (1 x) 9 mm
- (1 x) 3 - 5 mm
- (1 x) 1/4"

Universal Cabinet Key (in Blister)

Item No		EAN-Code
063 999 01	157	40 07157 62417 8



361



Mains testing screwdriver VDE 0680 150 V - 250 V

Item No		EAN-Code
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3,0 x 0,8	70 mm	23 mm	12	361 400 00	30	40 07157 52701 1
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361

Mains testing screwdriver VDE 0680 150 V - 250 V on card

Item No		EAN-Code
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3,0 x 0,8	70 mm	23 mm	12	361 400 01	43	40 07157 53229 9
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361



Item No



EAN-Code

Mains testing screwdriver VDE 0680 220 V – 250 V

3,0 x 0,8	65 mm	13 mm	12	361 300 00	17	40 07157 26509 8
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dto. on card			12	361 300 01	27	40 07157 26510 4
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361



Item No



EAN-Code

Mains testing screwdriver VDE 0680 220 V – 250 V

3,5 x 1,0	100 mm	17 mm	12	361 350 00	30	40 07157 26512 8
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dto. on card			12	361 350 01	43	40 07157 26513 5
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361



Item No



EAN-Code

Mains testing screwdriver VDE 0680 150 V – 250 V

3,0 x 0,8	150 mm	25 mm	12	361 600 00	30	40 07157 31069 9
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dto. in pouch			12	361 600 04	41	40 07157 52743 1
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361



Item No



EAN-Code

Mains testing screwdriver VDE 0680 150 V – 250 V

3,5 x 1,0	190 mm	25 mm	12	361 700 00	37	40 07157 31070 5
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dto. in pouch			12	361 700 04	50	40 07157 52745 5
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363



Item No

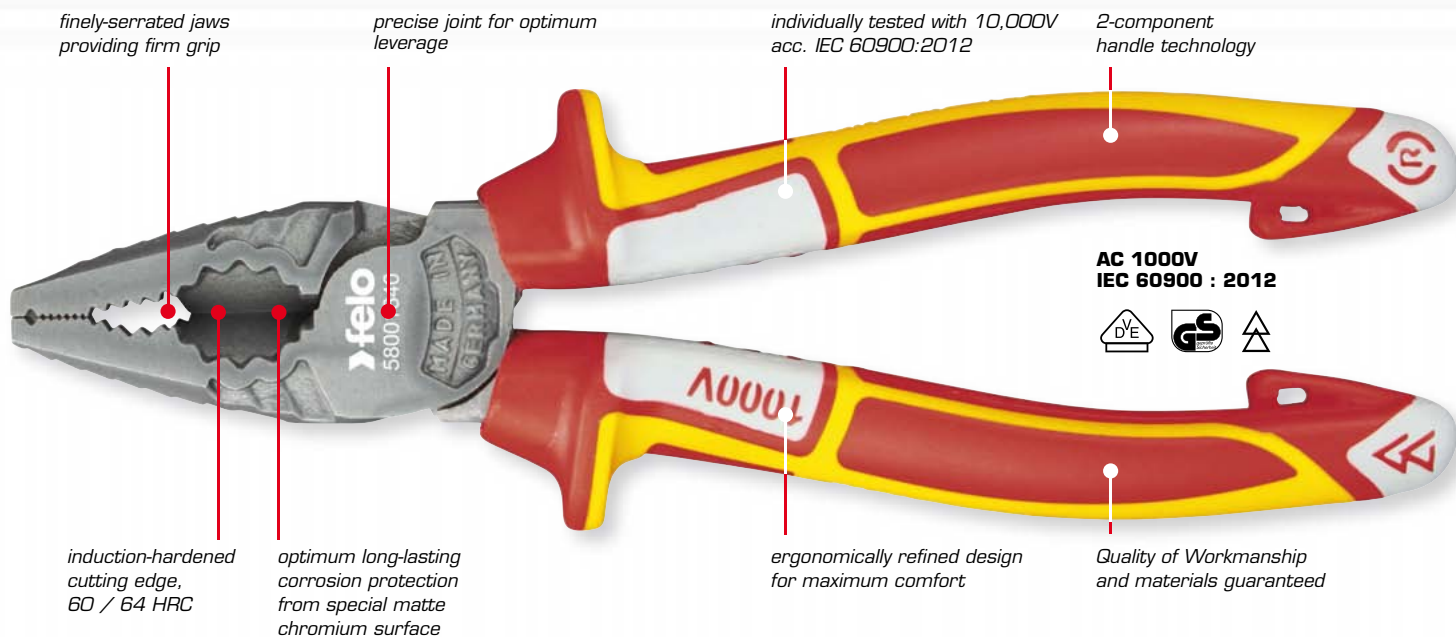


EAN-Code

Low Voltage Tester 6 V bis 24 V**on card**

105 mm x 12 mm	12	363 100 05	66	40 07157 57551 7
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VDE Pliers



Innovation and durability!

Gripping, cutting, pressing, stripping: pliers are indispensable tools. Average quality results in increased strain and slower work, unclean cuts and inferior work results.

Especially with frequently used tools like these, quality pays off quickly. Many small innovative details will ease your work and make sure of better work results.

Felo pliers have been developed for heavy duty work and superior life time: die-forged and oil-hardened, with jaws that are additionally induction hardened and 2-component safety handles. Of course each item is individually tested according to the strictest standard for tools for electricians: IEC 60900:2012.



New!

580



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

160 mm Combination Pliers VDE	6	580 016 40	180	40 07157 63791 8
180 mm Combination Pliers VDE	6	580 018 40	250	40 07157 63793 2

New!

581



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

160 mm Diagonal Nippers VDE	6	581 016 40	210	40 07157 63795 6
180 mm Diagonal Nippers VDE	6	581 018 40	240	40 07157 63797 0

New!

582



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

170 mm Chain Nose Radio Pliers VDE	6	582 017 40	150	40 07157 63799 4
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New!

582



AC 1000V
IEC 60900 : 2012



Item No



EAN-Code

Chain Nose Radio Pliers VDE curved 45° VDE	6	582 225 40	200	40 07157 63801 4
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New!

583



160 mm Insulation Stripping Pliers

6

Item No

583 016 40

AC 1000V
IEC 60900 : 2012



EAN-Code

180

40 07157 63803 8



New!

584



Cable Cutter VDE

6

Item No

584 016 40

AC 1000V
IEC 60900 : 2012



EAN-Code

305

40 07157 63805 2



New!

581



Heavy Duty Diagonal Nippers VDE

6

Item No

581 020 40

AC 1000V
IEC 60900 : 2012



EAN-Code

305

40 07157 63807 6



New!

586



Multi Cutter VDE

6

Item No

586 018 40

AC 1000V
IEC 60900 : 2012



EAN-Code

305

40 07157 63811 3



New!

580



Safety lanyard with SystemClip

5

Item No

580 001 00



EAN-Code

10

40 07157 63851 9



New!

413



AC 1000V
IEC 60900 : 2012



EAN-Code

VDE Service Kit ERGONIC 11-pcs

Item No

413 911 04

1580

40 07157 63855 7

[3 x] **413:** 3,5 x 0,6 / 4,0 x 100 / 5,5 x 1,0

[3 x] **414:** PH 0 x 60 / PH 1 x 80 / PH 2 x 100

[1 x] **Mains testing Screwdriver** 3,0 mm x 70 mm (VDE 0680/6, 150-250 Volt)

[1 x] **Combination Pliers** 180 mm

[1 x] **Diagonal Nippers** 160 mm

[1 x] **Chain Nose Radio Pliers VDE** 170 mm

[1 x] **Cable Stripper**

Nylon bag 330 x 270 x 55 mm

New!

413



AC 1000V
IEC 60900 : 2012



EAN-Code

VDE Service Kit E-slim 11-pcs

Item No

413 811 04

1615

40 07157 63857 1

[3 x] **413:** 3,5 x 0,6 / 4,0 x 100 / 5,5 x 1,0

[2 x] **414:** PH 1 x 80 / PH 2 x 100

[1 x] **415:** PZ 2 x 100

[1 x] **Mains testing Screwdriver** 3,0 mm x 70 mm (VDE 0680/6, 150-250 Volt)

[1 x] **Combination Pliers** 180 mm

[1 x] **Diagonal Nippers** 160 mm

[1 x] **Chain Nose Radio Pliers VDE** 170 mm

[1 x] **Cable Stripper**

Nylon bag 330 x 270 x 55 mm

New!

413



AC 1000V
IEC 60900 : 2012



EAN-Code

	Item No		
VDE Belt Pouch 9-pcs	413 995 04	1040	40 07157 63859 5
(3 x) 413:	3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0		
(2 x) 414:	PH 1 x 80 / PH 2 x 100		
(1 x)	Mains testing Screwdriver 3,0 mm x 70 mm (VDE 0680/6, 150-250 Volt)		
(1 x)	Combination Pliers 180 mm		
(1 x)	Diagonal Nippers 160 mm		
(1 x)	Cable Stripper		
	Nylon bag 290x 250 x 20 mm		

New!

413



AC 1000V
IEC 60900 : 2012



EAN-Code

	Item No		
VDE Belt Pouch 9-pcs	413 996 04	1050	40 07157 63941 7
(3 x) 413:	3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0		
(2 x) 414:	PZ 1 x 80 / PZ 2 x 100		
(1 x)	Mains testing Screwdriver 3,0 mm x 70 mm (VDE 0680/6, 150-250 Volt)		
(1 x)	Combination Pliers 180 mm		
(1 x)	Diagonal Nippers 160 mm		
(1 x)	Cable Stripper		
(1 x)	Safety lanyard with SystemClip		
	Nylon bag 290x 250 x 20 mm		

New!

413



AC 1000V
IEC 60900 : 2012



EAN-Code

XL Tool set VDE with pliers and screwdrivers 8-pcs /

Item No

413 985 17

1070

40 07157 63853 3

[3 x] **413:** 3,5 x 0,6 / 4,0 x 0,8 / 5,5 x 1,0

[2 x] **414:** PH 0 x 60 / PH 1 x 80 / PH 2 x 100

[1 x] **580:** **Combination Pliers** 180 mm

[1 x] **581:** **Diagonal Nippers** 160 mm

»felo tool-bags for electricians:

- mobile
- compact
- with comprehensive assortments

**The tools you need,
exactly where you
need them.**



Bit assortments for electricians



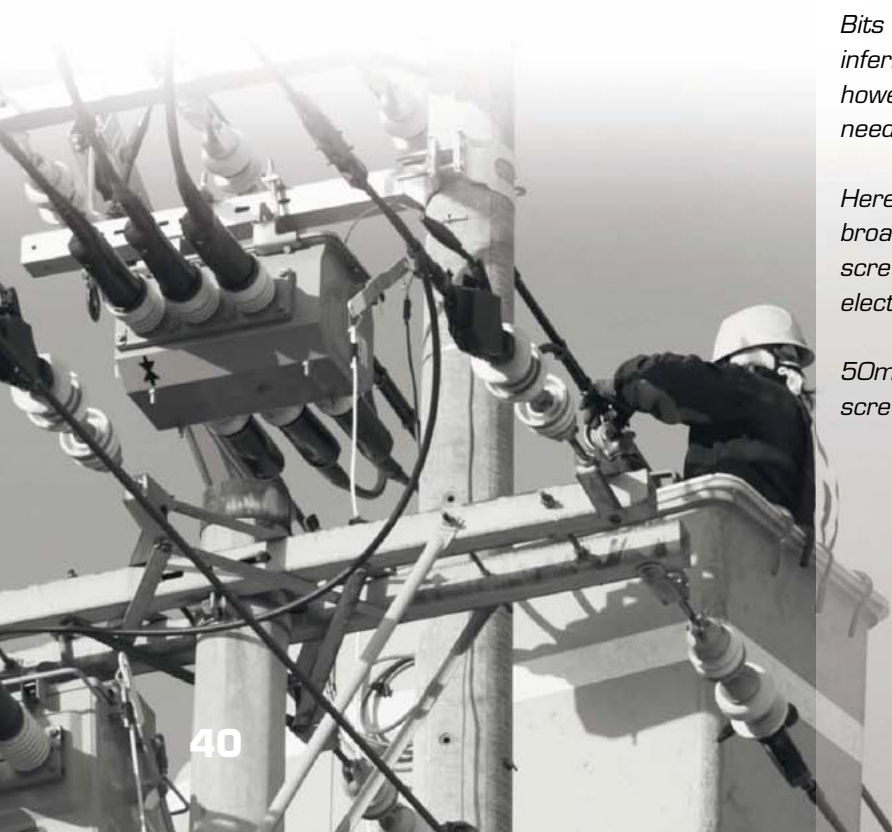
*Felo offers a wide range of bits
"Made in Germany", precisely machined from
 special high-performance steels, carefully
 hardened and quality monitored, guaranteed to
 be long lasting even under tough conditions.*

Premium quality you can rely on!

*Bits are available in many types and often
 inferior quality. Nothing is more annoying,
 however, than the failure of tools when you
 need them to work properly.*

*Here are a few assortments from the very
 broad Felo bit-program, covering all common
 screws, especially created for the needs of
 electricians.*

*50mm and 73 mm bits help you to operate
 screws in difficult to reach places.*



030



Item No



EAN-Code

Profi Bit Box, 6 Bits	E 6,3 x 50 mm	10	030 925 16	75	40 07157 63075 9
(3 x) 030:	0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5				
(1 x) 031:	PZ 2				
(2 x) 032:	PH 1 / PH 2				

030



Item No



EAN-Code

Profi Bit Box, 6 Bits	E 6,3 x 73 mm	10	030 927 16	100	40 07157 63069 8
(3 x) 030:	0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5				
(1 x) 031:	PZ 2				
(2 x) 032:	PH 1 / PH 2				

031



Item No

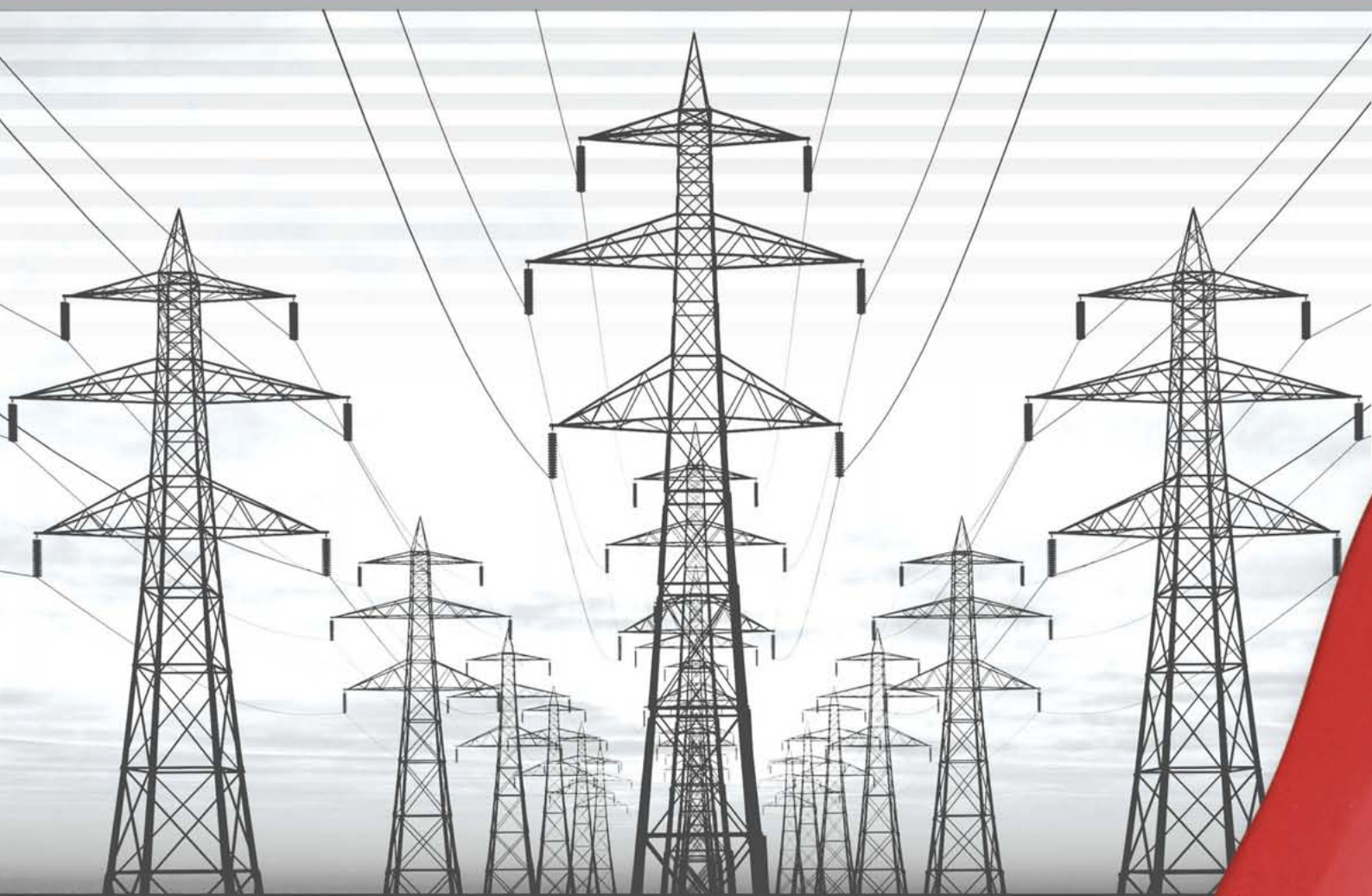


EAN-Code

Profi Bit Box, 6 Bits	E 6,3 x 73 mm	10	031 927 16	100	40 07157 63071 1
(3 x) 030:	0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5				
(2 x) 031:	Z(+/-) 1 / Z(+/-) 2				
(1 x) 032:	PH 2				



Profi Bit Box, 6 Bits	E 6,3 x 73 mm	10	032 927 16	100	40 07157 63071 1
(3 x) 030:	0,5 x 3,0 / 0,8 x 4,0 / 1,0 x 5,5				
(2 x) 031:	H(+/-) 1 / H(+/-) 2				
(1 x) 032:	PH 2				



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